

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/522, 427A
Source: IFW16
Date Processed by STIC: 03/08/2007

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 03/08/2007

PATENT APPLICATION: US/10/522,427A

TIME: 14:49:23

Input Set : A:\73748 Sequence Listing.ST25.txt

Output Set: N:\CRF4\03082007\J522427A.raw

3 <110> APPLICANT: Horne, Irene Mary
 4 Russell, Robyn Joyce
 5 Oakeshott, John Graham
 6 Sutherland, Tara Deane
 8 <120> TITLE OF INVENTION: Expression System
 10 <130> FILE REFERENCE: 10/522,427
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/522,427A
 C--> 12 <141> CURRENT FILING DATE: 2005-09-02
 12 <160> NUMBER OF SEQ ID NOS: 41
 14 <170> SOFTWARE: PatentIn version 3.3
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 30
 18 <212> TYPE: PRT
 19 <213> ORGANISM: Artificial Sequence
 21 <220> FEATURE:
 22 <223> OTHER INFORMATION: Signal Sequence
 24 <400> SEQUENCE: 1
 26 Met Lys Lys Arg Arg Val Val Asn Ser Val Leu Leu Leu Leu Leu Leu
 27 1 5 10 15
 30 Ala Ser Ala Leu Ala Leu Thr Val Ala Pro Met Ala Lys Ala
 31 20 25 30
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 46
 36 <212> TYPE: PRT
 37 <213> ORGANISM: Artificial Sequence
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: Signal Sequence
 42 <400> SEQUENCE: 2
 44 Met Glu Ala Arg Met Thr Gly Arg Arg Lys Val Thr Arg Arg Asp Ala
 45 1 5 10 15
 48 Met Ala Asp Ala Ala Arg Ala Val Gly Val Ala Cys Leu Gly Gly Phe
 49 20 25 30
 52 Ser Leu Ala Ala Leu Val Arg Thr Ala Ser Pro Val Asp Ala
 53 35 40 45
 56 <210> SEQ ID NO: 3
 57 <211> LENGTH: 41
 58 <212> TYPE: PRT
 59 <213> ORGANISM: Artificial Sequence
 61 <220> FEATURE:
 62 <223> OTHER INFORMATION: Signal Sequence
 64 <400> SEQUENCE: 3
 66 Met Ser Arg Ser Ala Lys Pro Gln Asn Gly Arg Arg Arg Phe Leu Arg
 67 1 5 10 15

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70 Asp Val Val Arg Thr Ala Gly Gly Leu Ala Ala Val Gly Val Ala Leu
71          20          25          30
74 Gly Leu Gln Gln Gln Thr Ala Arg Ala
75          35          40
78 <210> SEQ ID NO: 4
79 <211> LENGTH: 27
80 <212> TYPE: PRT
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Signal Sequence
86 <400> SEQUENCE: 4
88 Met Thr Trp Ser Arg Arg Gln Phe Leu Thr Gly Val Gly Val Leu Ala
89 1          5          10          15
92 Ala Val Ser Gly Thr Ala Gly Arg Val Val Ala
93          20          25
96 <210> SEQ ID NO: 5
97 <211> LENGTH: 27
98 <212> TYPE: PRT
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Signal Sequence
104 <400> SEQUENCE: 5
106 Met Asp Arg Arg Arg Phe Leu Thr Leu Leu Gly Ser Ala Gly Leu Thr
107 1          5          10          15
110 Ala Thr Val Ala Thr Ala Gly Thr Ala Lys Ala
111          20          25
114 <210> SEQ ID NO: 6
115 <211> LENGTH: 37
116 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Signal Sequence
122 <400> SEQUENCE: 6
124 Met Ser Glu Lys Asp Lys Met Ile Thr Arg Arg Asp Ala Leu Arg Asn
125 1          5          10          15
128 Ile Ala Val Val Val Gly Ser Val Ala Thr Thr Thr Met Met Gly Val
129          20          25          30
132 Gly Val Ala Asp Ala
133          35
136 <210> SEQ ID NO: 7
137 <211> LENGTH: 34
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Signal Sequence
144 <400> SEQUENCE: 7
146 Met Gln Ile Val Asn Leu Thr Arg Arg Gly Phe Leu Lys Ala Ala Cys
147 1          5          10          15
150 Val Val Thr Gly Gly Ala Leu Ile Ser Ile Arg Met Thr Gly Lys Ala

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151                20                25                30
154 Val Ala
158 <210> SEQ ID NO: 8
159 <211> LENGTH: 45
160 <212> TYPE: PRT
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Signal Sequence
166 <400> SEQUENCE: 8
168 Met Asn Asn Glu Glu Thr Phe Tyr Gln Ala Met Arg Arg Gln Gly Val
169 1                5                10                15
172 Thr Arg Arg Ser Phe Leu Lys Tyr Cys Ser Leu Ala Ala Thr Ser Leu
173                20                25                30
176 Gly Leu Gly Ala Gly Met Ala Pro Lys Ile Ala Trp Ala
177                35                40                45
180 <210> SEQ ID NO: 9
181 <211> LENGTH: 48
182 <212> TYPE: PRT
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: Signal Sequence
188 <400> SEQUENCE: 9
190 Met Ser Thr Gly Thr Thr Asn Leu Val Arg Thr Leu Asp Ser Met Asp
191 1                5                10                15
194 Phe Leu Lys Met Asp Arg Arg Thr Phe Met Lys Ala Val Ser Ala Leu
195                20                25                30
198 Gly Ala Thr Ala Phe Leu Gly Thr Tyr Gln Thr Glu Ile Val Asn Ala
199                35                40                45
202 <210> SEQ ID NO: 10
203 <211> LENGTH: 50
204 <212> TYPE: PRT
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Signal Sequence
210 <400> SEQUENCE: 10
212 Met Lys Cys Tyr Ile Gly Arg Gly Lys Asn Gln Val Glu Glu Arg Leu
213 1                5                10                15
216 Glu Arg Arg Gly Val Ser Arg Arg Asp Phe Met Lys Phe Cys Thr Ala
217                20                25                30
220 Val Ala Val Ala Met Gly Met Gly Pro Ala Phe Ala Pro Lys Val Ala
221                35                40                45
224 Glu Ala
225                50
228 <210> SEQ ID NO: 11
229 <211> LENGTH: 26
230 <212> TYPE: PRT
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Signal Sequence

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236 <400> SEQUENCE: 11
238 Met Asn Arg Arg Asn Phe Ile Lys Ala Ala Ser Cys Gly Ala Leu Leu
239 1          5          10          15
242 Thr Gly Ala Leu Pro Ser Val Ser His Ala
243          20          25
246 <210> SEQ ID NO: 12
247 <211> LENGTH: 44
248 <212> TYPE: PRT
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Signal Sequence
254 <400> SEQUENCE: 12
256 Met Ser His Ala Asp Glu His Ala Gly Asp His Gly Ala Thr Arg Arg
257 1          5          10          15
260 Asp Phe Leu Tyr Tyr Ala Thr Ala Gly Ala Gly Thr Val Ala Ala Gly
261          20          25          30
264 Ala Ala Ala Trp Thr Leu Val Asn Gln Met Asn Pro
265          35          40
268 <210> SEQ ID NO: 13
269 <211> LENGTH: 44
270 <212> TYPE: PRT
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Signal Sequence
276 <400> SEQUENCE: 13
278 Met Thr Gln Ile Ser Gly Ser Pro Asp Val Pro Asp Leu Gly Arg Arg
279 1          5          10          15
282 Gln Phe Met Asn Leu Leu Thr Phe Gly Thr Ile Thr Gly Val Ala Ala
283          20          25          30
286 Gly Ala Leu Tyr Pro Ala Val Lys Tyr Leu Ile Pro
287          35          40
290 <210> SEQ ID NO: 14
291 <211> LENGTH: 32
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Signal Sequence
298 <400> SEQUENCE: 14
300 Met Asp Arg Arg Thr Phe Leu Arg Leu Tyr Leu Leu Val Gly Ala Ala
301 1          5          10          15
304 Ile Ala Val Ala Pro Val Ile Lys Pro Ala Leu Asp Tyr Val Gly Tyr
305          20          25          30
308 <210> SEQ ID NO: 15
309 <211> LENGTH: 42
310 <212> TYPE: PRT
311 <213> ORGANISM: Artificial Sequence
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Signal Sequence
316 <400> SEQUENCE: 15

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```

318 Met Thr Lys Leu Ser Gly Gln Glu Leu His Ala Glu Leu Ser Arg Arg
319 1          5          10          15
322 Ala Phe Leu Ser Tyr Thr Ala Ala Val Gly Ala Leu Gly Leu Cys Gly
323          20          25          30
326 Thr Ser Leu Leu Ala Gln Gly Ala Arg Ala
327          35          40
330 <210> SEQ ID NO: 16
331 <211> LENGTH: 31
332 <212> TYPE: PRT
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Signal Sequence
338 <400> SEQUENCE: 16
340 Met Thr Leu Thr Arg Arg Glu Phe Ile Lys His Ser Gly Ile Ala Ala
341 1          5          10          15
344 Gly Ala Leu Val Val Thr Ser Ala Ala Pro Leu Pro Ala Trp Ala
345          20          25          30
348 <210> SEQ ID NO: 17
349 <211> LENGTH: 31
350 <212> TYPE: PRT
351 <213> ORGANISM: Artificial Sequence
353 <220> FEATURE:
354 <223> OTHER INFORMATION: Signal Sequence
356 <400> SEQUENCE: 17
358 Met Thr Ile Ser Arg Arg Asp Leu Leu Lys Ala Gln Ala Ala Gly Ile
359 1          5          10          15
362 Ala Ala Met Ala Ala Asn Ile Pro Leu Ser Ser Gln Ala Pro Ala
363          20          25          30
366 <210> SEQ ID NO: 18
367 <211> LENGTH: 32
368 <212> TYPE: PRT
369 <213> ORGANISM: Artificial Sequence
371 <220> FEATURE:
372 <223> OTHER INFORMATION: Signal Sequence
374 <400> SEQUENCE: 18
376 Met Ser Glu Ala Leu Ser Gly Arg Gly Asn Asp Arg Arg Lys Phe Leu
377 1          5          10          15
380 Lys Met Ser Ala Leu Ala Gly Val Ala Gly Val Ser Gln Ala Val Gly
381          20          25          30
384 <210> SEQ ID NO: 19
385 <211> LENGTH: 45
386 <212> TYPE: PRT
387 <213> ORGANISM: Artificial Sequence
389 <220> FEATURE:
390 <223> OTHER INFORMATION: Signal Sequence
392 <400> SEQUENCE: 19
394 Met Lys Thr Lys Ile Pro Asp Ala Val Leu Ala Ala Glu Val Ser Arg
395 1          5          10          15
398 Arg Gly Leu Val Lys Thr Thr Ala Ile Gly Gly Leu Ala Met Ala Ser

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/522,427A

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Input Set : A:\73748 Sequence Listing.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:41; Xaa Pos. ~~2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23~~

Seq#:41; Xaa Pos. ~~24,25,26,28,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44~~

Seq#:41; Xaa Pos. ~~45,46,47,48,49,50,51,52,53~~

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:41

VERIFICATION SUMMARY

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Input Set : A:\73748 Sequence Listing.ST25.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0

L:953 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:16

L:957 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:32

L:961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:48